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IN THE CLAIMS

1.-20. Cancelled.

21. (New) A control for use in a variety of models of a device, the device capable of having a plurality of output transducers, the output transducers converting electrical energy to some other form of energy, the device comprising:

a selection means for energizing a first circuit which could contain a first output transducer;

a sensor for scanning the circuit to determine whether the first output transducer is present;

and limiting means for limiting the operation of the control to only those output transducers present within a device.

22. (New) The control of claim 21 where the output transducers are display elements.

23. (New) The control of claim 21 where the output transducers are solenoids.

24. (New) The control of claim 21 where the output transducers are motor windings.

25. (New) The control of claim 21 where the output transducers are heating elements.

26. (New) The control of claim 24 where the selection means is a relay.

27. (New) The control of claim 21 further comprising a second circuit, and where the sensor scans the second circuit to determine the presence a second output transducers.

28. (New) The control of claim 27 where the selecting means selects which of the first circuit and the second circuit is scanned by the sensor.

29. (New) The control of claim 21 where the limiting means determines whether there is a fault in the output transducer.

30. (New) The control of claim 29 where the sensor detects whether a component other than the first output transducer is in the first circuit, the component being distinguishable from both the output transducer and from a failed output transducer by a scan using the sensing means.

31. (New) A control for operating with a plurality of models, each model having a number of display output transducers, the display output transducers indicating to an operator the operating mode of the model, comprising:

selection means to attempt to energize the circuits that could contain display output transducers;

sensing means for scanning the circuits to identify which of the display output transducers are present in the model; and

a limiting means for limiting the operation of the control to the display output transducers identified by the sensing means.

32. (New) The control of claim 31 further comprising:
means for enabling the selection means, the sensing means, and the limiting means each time a key is pressed.

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33. (New) The control of claim 32 where a single sensor of the sensing means scans more than one of the circuits to determine the presence of more than one of the output transducers.

34. (New) The control of claim 33 where the circuits the single sensor scans are selected by the sensing means.

35. (New) The control of claim 34 where in addition to the plurality of models using the display output transducers to indicate the operating mode of the model, the control also operates models using position switches to indicate the operating mode, a pair of contacts of the position switches occupying the circuit which contains display output transducers on other models

36. (New) The control of claim 35 where the sensing means scans the circuit selected by the selection means to determine the operating mode indicated by the position switches.

37. (New) A method of operating a control, the control having a first operating mode and a second operating mode comprising:

energizing a first circuit;

detecting the presence or absence of a first transducer in the first circuit by scanning the first circuit;

enabling the control to operate in the first operating mode if the first transducer is present in the circuit; and

enabling the control to operate in the second operating mode.

38. (New) The method of claim 37 further comprising:
detecting whether the first transducer has failed.